

United States District Court  
Southern District of New York

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United States of America,

-against-

20 Cr. 93 (LTS)

Michael Ackerman,

Defendant.

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MICHAEL ACKERMAN'S SENTENCING SUBMISSION

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**REQUEST TO FILE UNDER SEAL<sup>1</sup>**

February 1, 2022

By ECF

Honorable Laura Taylor Swain  
United States District Court  
Southern District of New York  
500 Pearl Street  
New York, New York 10007

**Re: United States v. Michael Ackerman, 20 Cr. 93 (LTS)**

Dear Judge Swain:

This is an exceptional case. Michael Ackerman has pled guilty to participating in a fraud with a particularly high loss amount and, under normal circumstances, would be facing certain imprisonment. But circumstances here are anything but normal, as any sentence of imprisonment would amount to a death sentence. Mike has [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Mike's medical condition is an extraordinary circumstance that means this Court should not imprison him. But even apart from his need for medical treatment, other important sentencing considerations also support a reduced sentence. This is Mike's very first conviction, and his offense was non-violent and committed while he was [REDACTED]

[REDACTED] And, critically, he has accepted full responsibility and is remorseful and deterred. At his September 8, 2021 guilty plea he showed an uncommon level of self-awareness and remorse, telling this Court: "I am deeply sorry for my actions. The bottom

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<sup>1</sup> We respectfully request to file this sentencing submission under seal because it contains a large amount of sensitive medical information and cannot be readily redacted.

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line is, I am guilty. I took the low road. My entire life I've always taken the high road. That does not mean a thing now, but I am guilty of this charge." PSR ¶ 32.

While Mike does not dispute that the Guidelines range is properly calculated in the PSR at 78 to 97 months, PSR ¶ 88, the Guidelines, which under the best of circumstances often fail to account for the complexities involved in arriving at a just sentence, are particularly deficient here. The Court should decline to follow them. *See generally* Hon. Jed S. Rakoff, *Why the Federal Sentencing Guidelines Should be Scrapped*, 2013 WL 8171733 ("[T]he Federal Sentencing Guidelines should be scrapped in their entirety and replaced with a nonbinding, nonarithmetic multifactor test."). After carefully considering the equities of Mike's case, the Probation Office has recommended a non-incarceratory sentence. Probation's reasoning is worth quoting at length:

The Probation Office believes that Ackerman's medical condition is a significant mitigating factor which warrants a non-custodial sentence. It appears that even a short term of imprisonment in a medical center operated by the U.S. Bureau of Prisons could potentially be a lethal sentence given the defendant's needs, and it would impose an expensive and unnecessary burden on prison officials to take responsibility for his care. While we acknowledge that this offense was perpetrated over several years and resulted in exorbitant losses, it does not appear that a sentence of imprisonment would serve justice in this particular case. Ackerman's personal history and characteristics, marked by extensive medical and psychological problems, as well as a significant [REDACTED]  
[REDACTED], represent extraordinary and extenuating circumstances that should be taken into consideration. We also note that the defendant is a first-time offender who appears to have otherwise been a law-abiding and contributing member of society, and that he has the benefit of above-average educational and vocational skills, as well as strong family ties.

PSR p. 31.

If ever there were a case that called out for mercy at sentencing, this is it. In accord with Probation's assessment, the Court should decline to imprison Mike.

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**Mike's history and characteristics, offense, and medical condition**

*Mike's background and commitment to his loved ones.* Michael Ackerman was born in 1969, in Alliance, Ohio. He and his two brothers had a comfortable childhood there. His father was a nuclear engineer and his mother was a nurse in a hospital maternity ward. Mike graduated high school in 1987. He did well academically and was a member of the wrestling and cross country teams. After high school he moved to New York for college, attending Manhattanville College in Purchase, New York. He graduated in 1991 with a degree in economics and finance.

After college he went straight to work on Wall Street. By 1992 he was a full-time stockbroker with UBS. He made good money and enjoyed the work. Eventually, though, technological advancements rendered his position obsolete. He left UBS in 2014 and spent the next couple of years as a self-employed broker under the aegis of a Netherlands-based bank. In 2017, along with two other individuals, he launched Q3, the cryptocurrency trading fund at issue in the offense in this case (discussed below).

In 1996 Mike married Michelle Roiland. They had three children—Megan, Marissa, and Michael. Megan is an accountant and Marissa and Michael are students. Mike and Michelle would remain married for 20 years until their divorce in 2016. Unfortunately, Mike's [REDACTED] took its toll on their relationship and eventually caused its demise. Today the children live with Michelle in New York City.

But those who know Mike best describe him as a caring father, son, friend, and husband. He loves his three children dearly, though they live far from his home in Ohio. His parents—his father, Jerry, 86, and his mother, Mary, 85—thankfully live two hours away and visit Mike at his home when they're able. They also speak by phone frequently. Sadly, Mary, who has survived multiple bouts of cancer, is in the early stages of dementia.

In 2019 Mike married Stacey Ackerman, née Lepink. Stacey has a graduate degree in teaching and has worked in the pharmaceutical industry, but for the last several years has been Mike's full-time caretaker. Because she is caring for him full-time, neither one of them has worked for the past several years. They have no income whatsoever, and know they'll soon be forfeiting the home in which they live. All they have left is each other. But their love remains strong—Stacey is Mike's wife, friend, and rock.

Somehow, through all his travails, Mike has maintained his humanity. Though he struggles with [REDACTED], on his good days he is gregarious, funny, and kind. This is perhaps unsurprising

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to those that know him best—he has a rich history of providing love and support to his family and friends. His [REDACTED]

Mike's brother echoes the view of him as someone who looks out for others, even if sometimes to his own detriment:

Mike is more of a people pleaser than most people I've known. When we were kids and our parents fought, Mike was the conciliatory one, the one who wanted problems to go away and for everyone to just get along. When Mike had something, he shared, generous to a fault. He has always been, from childhood to old age, someone motivated to help the people around him.

Letter of Joseph Ackerman (Ex. B).

*Mike's offense.* In 2017, Mike and two partners established Q3 as a vehicle for trading in Bitcoin and other cryptocurrencies. Mike's role was to develop and implement Q3's trading strategy, one he would base on strategies he had seen succeed in the similarly decentralized foreign exchange market. One of Mike's partners took the lead on soliciting investors, who were mainly wealthy individuals with whom that partner had prior contact.

Mike had control over Q3's primary trading account, which was housed on a well-known cryptocurrency exchange. He began with good intentions, but quickly saw that he wasn't achieving the kinds of returns that he had anticipated and that Q3 had promised its investors. He began to feel keen financial pressure and would go on to make a series of misrepresentations about Q3's trading account balances to his partners, including through falsified screenshots of account balances, reporting grossly exaggerated earnings. This misinformation was then passed

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on—by both Mike and his partners—to current and prospective investors, who were falsely led to believe that Q3 was earning far more than it was.

By the time of its demise in 2019, Q3 had received over \$30M from its clients, but had only invested around \$10M into cryptocurrency exchanges. *See* Pl's Mem. in Supp. of Mot. for Summ. J. at 13, *CFTC v. Ackerman et al.*, 20 Cv. 1183 (NRB) (Jan. 7, 2021), ECF No. 43. Q3 returned approximately \$5M to its customers. *Id.* at 14. Of the money Q3 took in, Mike misappropriated approximately \$9M for himself. PSR ¶ 28.<sup>2</sup>

Mike's conduct was inexcusable, and he is remorseful for it. He is not the type to make excuses. But we would be remiss to fail to note that, during the offense, [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

*Mike's medical condition.*<sup>3</sup> By September 2019 [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

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<sup>2</sup> Mike estimates that he personally profited somewhere between \$7M and \$9M—as the profits were split between the partners—but he has agreed to forfeiture and restitution figures of over \$30M each, based on the total amount that Q3 took from its investors.

<sup>3</sup> The details in this section are taken from Mike's medical records, the PSR, and a report prepared by Dr. Chibuzo U. Enemchukwu, MD, MS ("Enemchukwu Report") (Ex. H). Dr. Enemchukwu is a physician board-certified in internal medicine and infectious diseases [REDACTED]

[REDACTED]

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The figure consists of six horizontal panels, each containing a bar chart. Each bar chart has a y-axis with 10 tick marks and an x-axis with 5 tick marks. The bars are black and extend from the x-axis to various points on the y-axis. The panels are separated by white space.

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In summary, Mike is deeply unwell.

## **The law applicable to this sentencing**

As this Court knows, the Guidelines range is but one of many factors set forth in 18 U.S.C. § 3553(a) that a district court is to consider when imposing sentence. *See generally United States v. Booker*, 543 U.S. 220 (2005). “The Guidelines are not only not mandatory on sentencing

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courts; they are also not to be presumed reasonable.” *Nelson v. United States*, 129 S. Ct. 890, 892 (2009) (emphasis in original).

As for the range in Mike’s case, courts in our circuit have frequently criticized the controlling Guideline, § 2B1.1, for its undue emphasis on loss amount. *See, e.g., United States v. Johnson*, 2018 WL 1997975 (E.D.N.Y. Apr. 27, 2018) (“As far as this court can tell, the Sentencing Commission’s loss-enhancement numbers do not result from any reasoned determination of how the punishment can best fit the crime, nor any approximation of the moral seriousness of the crime.”). This undue emphasis has only grown over time, as each new iteration of the loss enhancement has recommended a harsher sentence than the last, despite lacking any empirical rationale for its ever-escalating numbers. *See* Hon. Jed S. Rakoff, *Why the Federal Sentencing Guidelines Should be Scrapped*, 2013 WL 8171733 (criticizing the modern version of § 2B1.1 as unduly harsh where it yields a typical sentencing range “500 percent greater today than it was under the original Guidelines”). The Second Circuit has observed that § 2B1.1’s myopic focus on loss is “unknown to other sentencing systems” and that this “unusualness is a circumstance that a sentencing court is entitled to consider.” *United States v. Algahaim*, 842 F.3d 796, 800 (2d Cir. 2016); *see also United States v. Corsey*, 723 F.3d 366, 379 (2d Cir. 2013) (Underhill, J., concurring) (“[Because the fraud Guideline] was not developed by the Sentencing Commission using an empirical approach based on data about past sentencing practices ...., district judges can and should exercise their discretion when deciding whether or not to follow the sentencing advice that guideline provides.”).

Sentencing necessarily involves an analysis of a complicated mix of factors, not a blind adherence to the Guidelines. The overarching command of § 3553(a) is that sentences be “sufficient, but not greater than necessary,” to achieve the basic goals of retribution, deterrence and rehabilitation. To arrive at such a sentence, district courts are directed to consider: (1) the nature and circumstances of the offense and the history and characteristics of the offender; (2) the need for the sentence imposed to provide just punishment, deterrence, and needed educational and vocational training; (3) the kinds of sentences available; (4) the Guidelines range and any pertinent policy statements issued by the Sentencing Commission; (5) the need to avoid unwarranted sentence disparities among similarly situated defendants; and (6) the need to provide restitution. *See* § 3553(a). In every case, the sentencing court “must make an individual assessment based on the facts presented.” *Gall v. United States*, 128 S. Ct. 586, 597 (2007).

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**The Court should not sentence Mike to prison.**

Not all criminal convictions should result in prison sentences. In fact, when Congress created the federal Sentencing Guidelines in the Sentencing Reform Act of 1984, it expressed the notion that first offenders who commit non-violent and otherwise less serious offenses should *not* receive prison sentences. *See* 28 U.S.C. 994(j). Mike—whose offense, though serious, was entirely non-violent—is one such first offender.

A sentence that does not include imprisonment does not mean that Mike will escape punishment. He has already suffered meaningful collateral consequences for his wrongdoing. *See United States v. Stewart*, 590 F.3d 93, 141 (2d Cir. 2009) (“It is difficult to see how a court can properly calibrate a ‘just punishment’ if it does not consider the collateral effects of a particular sentence.”). For one, he will forever carry the stigma of a felony conviction and, no matter what his health outcome, will never work in the financial field again. *See id.* (endorsing district court’s view that “the need for further deterrence and protection of the public is lessened because the conviction itself already visits substantial punishment of the defendant”).

For another, he has agreed to robust restitution and forfeiture orders that require him to relinquish numerous assets, including the very home in which he and Stacey currently live. In his plea agreement and in a consent forfeiture order, he readily agreed to restitution and forfeiture of over \$30M each, figures that represent all the proceeds traceable to Q3’s malfeasance, notwithstanding that he misappropriated less than \$10M for himself. He agreed specifically to forfeit multiple trading and bank accounts, cash, various pieces of real estate including his present home (and funds from sales of additional pieces of real estate), vehicles, and numerous pieces of jewelry. He also faces a number of parallel civil actions, including ones initiated by the CFTC and SEC, that are likely to conclude with monetary penalties and permanent bans from trading.

These are all significant, if richly deserved, punishments. As a result of these financial consequences and the expense of his illness, Mike is destitute and in substantial debt. He and Stacey now subsist on his \$1,400 monthly SSI payments, food stamps, and whatever assistance Mike’s family is able to provide. Mike is on Medicare and Medicaid. He has fallen very far indeed.

And there can be little doubt that two other important sentencing considerations—incapacitation and deterrence—have been achieved. First, Mike’s dire physical condition means

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he is essentially incapable of committing another crime. More to the point, he has shown a level of awareness about the motivations and consequences of his offense that is sometimes lacking among defendants facing similar charges. He reiterated to the Probation Office what he told this Court when he pled guilty: that his offense was motivated by greed. He added that he is “beyond sorry” and has “learned [his] lesson.” PSR ¶ 33. Stacey has seen his remorse up close: “He wishes there was something he could do to make things right. This is something he will have to live with the rest of his life and that torments him immensely.” Letter of Stacey Ackerman (Ex. F).

At bottom, though, the gravity of Mike’s medical condition and the care it requires eclipse all other sentencing considerations. *See* § 3553(a)(2)(D) (directing sentencing courts to consider a defendant’s need for medical care). Dr. Enemchukwu writes that Mike’s “medical problems are numerous and complex and have left him in a tenuous state of debility and frailty.” Enemchukwu Report at 4. She details the exceptionally close care Mike needs on a daily basis, and the reality that he is unlikely to receive such care if imprisoned.

A description of a typical day in Mike's life brings home the reality of his medical condition and the quantity and quality of care it requires. [REDACTED]

Term	Percentage
GMOs	85%
Organic	80%
Natural	75%
Artificial	65%
Organic	60%
Natural	55%
Artificial	50%
Organic	45%
Natural	40%
Artificial	35%
Organic	30%
Natural	25%
Artificial	20%

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The figure consists of four separate bar charts, each containing four horizontal bars. The bars are black and of varying lengths. In each chart, the top bar is the longest, followed by the third bar, then the second, and finally the fourth bar. The bars are separated by thin white lines.

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Enemchukwu Report at 4 (citations omitted).

This is all to say that Mike's path to survival is at best fraught with peril. His medical needs are simply too demanding to subject him to incarceration, even at whatever medical facilities the BOP might offer. Imprisoning Mike would take him away from the team of doctors, nurses, and other medical professionals whom he currently works with and who know his needs best.

1. **What is the primary purpose of the proposed legislation?**

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[REDACTED] But he has hope. He has hope as well that someday he can get better, and that he can work to further repay the victims of his crime. He'll never forgive himself for what he's done. For now, though, he is trying to get by one day at a time.

—  
Based on the extraordinary circumstances of Mike's case, we respectfully request that the Court impose a non-incarceratory sentence.

Sincerely,

/s/ Jonathan Marvinny  
Jonathan Marvinny  
Assistant Federal Defender  
212.417.8792  
[jonathan\\_marvinny@fd.org](mailto:jonathan_marvinny@fd.org)

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## EXHIBIT A

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November 6, 2021

Dear Judge Swain,

[REDACTED]

Michael and I first met in 1992 on the floor of the New York Stock Exchange. Through business we became personal friends. I was married with two children; Michael was married with two children. Unfortunately, his second child was born with a coronary disorder that required several surgeries from infancy. He maintained superb professionalism in business while holding his family together. When the smoke began to clear, he immediately fundraised for the Children's Cardiac Wing at Columbia University Hospital in New York. He tirelessly did for several years. He also became a mentor for all new employees at UBS Warburg.

Anytime anyone he knew personally or professionally had any difficulties – financial, medical or whatever – Michael was the first to personally assist or assemble a group to help the person in need. Michael took me into his home when my life started to fall apart. He had me stay with him on several occasions rather than let me be alone in a hotel room. I had lost my job in 2010 and my life was spiraling out of control. In 2011 my girlfriend called Michael in desperation. He immediately got a group together to get me into rehab. Thanks to him, I have been sober since 7-7-11. This is the Michael Ackerman I have known and loved.

[REDACTED]

Yours truly,

[REDACTED]

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## EXHIBIT B

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November 15, 2021

Judge Swain,

My name is Joseph Ackerman. I am Michael Ackerman's oldest brother. I write this letter of support to help Your Honor better decide Michael's fate in the legal system.

Like many older siblings, I left home and didn't much look back. Much of what I know of my brother's twenties, when he went from a typical kid in a small rust belt town to a stockbroker in New York, is filtered through my mother's stories. She would watch the news, waiting for a segment that briefly showed the floor of the stock exchange, in hopes she could catch a glimpse of Michael. She regaled me with stories of what was, by her standards, Michael's impossibly expensive house. There were funny stories, like the time Mike's now-former wife threw a bunch of new, functional clothing out, and my mother (herself from Flushing, Queens) was out front of the house picking through the garbage, indignant at the wastefulness, and Mike's wife in turn was indignant that she was "out there going through the trash!"

Reading between the lines of these stories, and seeing his family at Christmas and funerals, it seemed to me that Mike was driven through life not by a desire for money and status but by a desire to provide these things for his family. I think this is important, Mike is more of a people pleaser than most people I've known. When we were kids and our parents fought, Mike was the conciliatory one, the one who wanted problems to go away and for everyone to just get along. When Mike had something, he shared, generous to a fault. He has always been, from childhood to old age, someone motivated to help the people around him.

When everything went to crap in 2007-2008, Mike went from riches to rags. Transparent, upfront guy that he is, he was amazed and angry when people he worked with in the stock market screwed him out of money, because he would never have done the same to them. He went from working on the floor of the stock market to working as a security guard. I remember he asked my mother for money to buy his kids Christmas presents that year, which I know he found humiliating. He went through a very difficult divorce that shook his identity as a "success" who provided for his wife and kids. What followed was a hard decade for Mike. I believe the decisions he made proceeded from this.

So, I look at Michael now, and I'm frankly in awe that he keeps going. I've had my share of major health problems, and I'm not sure, honestly, that in his place I wouldn't put a bullet in my mouth. His body has become a nightmare I wouldn't wish on anyone, and given what I know of healthcare in the prison system, ending up there seems like a death sentence for Michael. I talk with Mike regularly now, and his existence is filled with [REDACTED]

I strongly believe punishing him even more will not serve the interests of justice. It will just add more sadness to an already sad situation. Please, Judge Swain, let my brother stay out so he can live what life he has left.

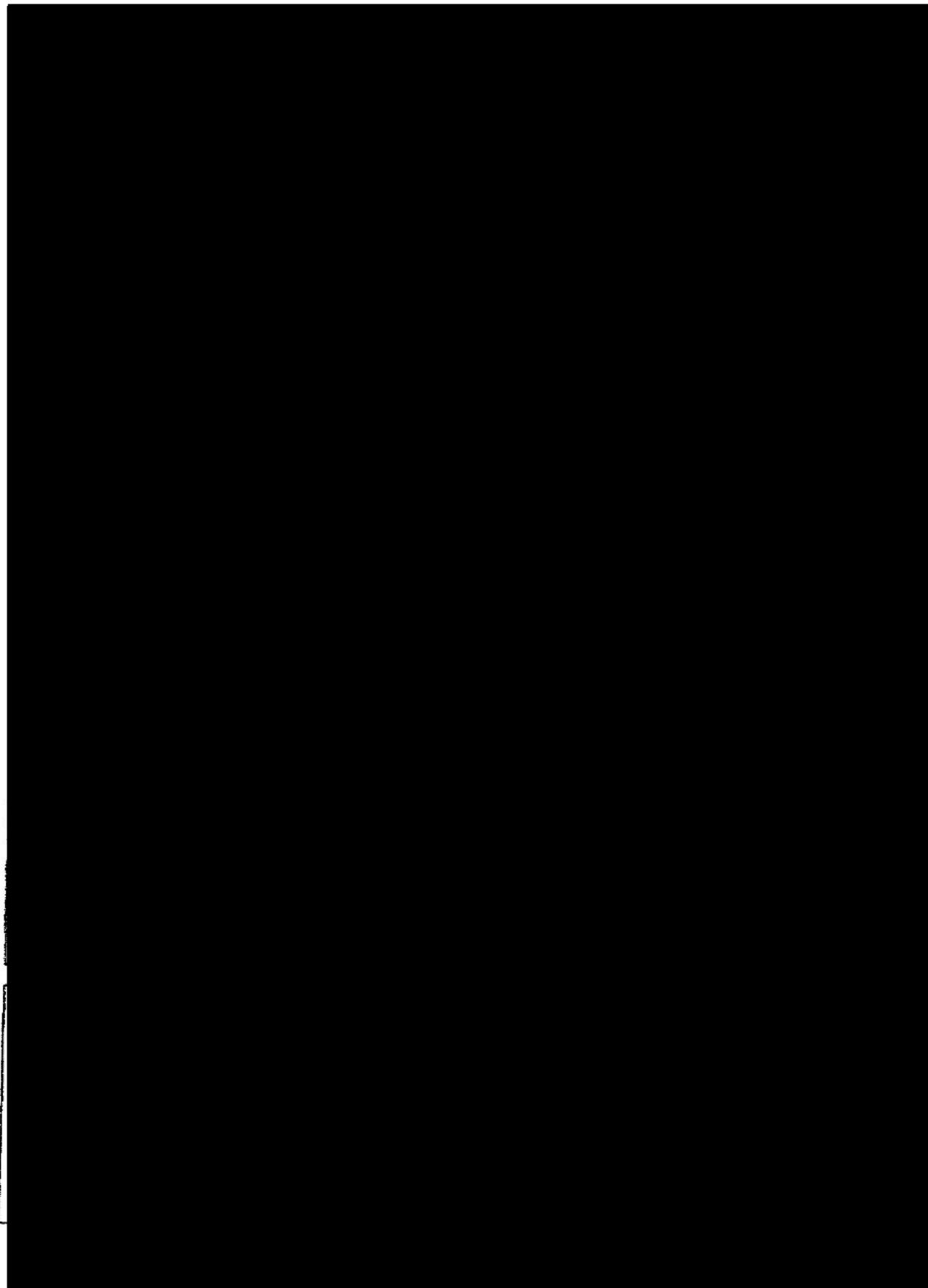
Sincerely,

Joseph Ackerman  
[REDACTED]

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## EXHIBIT C

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## EXHIBIT D

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[Log out](#)

Mike

o

[Change Your Photo](#)

No file chosen

o

[Change Your Shortcuts](#)

o

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

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1

[REDACTED]

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## EXHIBIT E

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## EXHIBIT F

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November 4, 2021

Dear Judge Swain:

My name is Stacey Ackerman. I'm Michael's wife. I've been with Mike for 3 years and we've been married a little over 2 years. I fell very quickly in love with Mike because I found him to be attentive, caring, supportive and honest. He treats me very well and we have a wonderful, loving marriage.

Mike has three kids from his previous marriage that live in New York. Mike loves his kids very much and misses them terribly. He calls or texts with each of them daily. He also has two elderly parents that live two hours from us. He also calls them daily and we see them often. He always looks out for them. Mike has a few guys that he's been friends with for years. If any of them ever need anything, Mike is the first person they call. If he has \$10 to his name, he'll give them \$9. He truly has a soft spot for the ones he loves. He's has also flown a few of my friends out or sent us on a girls' vacation, all expenses paid. He loves to make other people happy and always puts others before himself.

[REDACTED]

[REDACTED]

I know Mike has so many regrets about the lapse in judgement and poor decisions he made. He did a bad thing and he knows it. He's especially remorseful about the people he hurt who he had considered good friends. He talks about it frequently and only wishes he could go back and do things differently. He wishes there was something he could do to make things right. This is something he will have to live with the rest of his life and that torments him immensely.

[REDACTED]

[REDACTED]

I love my husband more than anything. I was very distraught when I learned of the crime Mike committed. Like I said he truly is a great man that made an awful decision. My only hope right now is that he survives. I don't know what I would do without him. I credit him for saving my life. I would do anything for him and I know he would do anything for me.

Thank you for your time,

Stacey Ackerman

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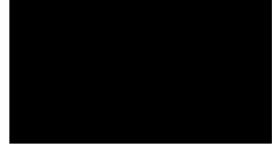
## EXHIBIT G

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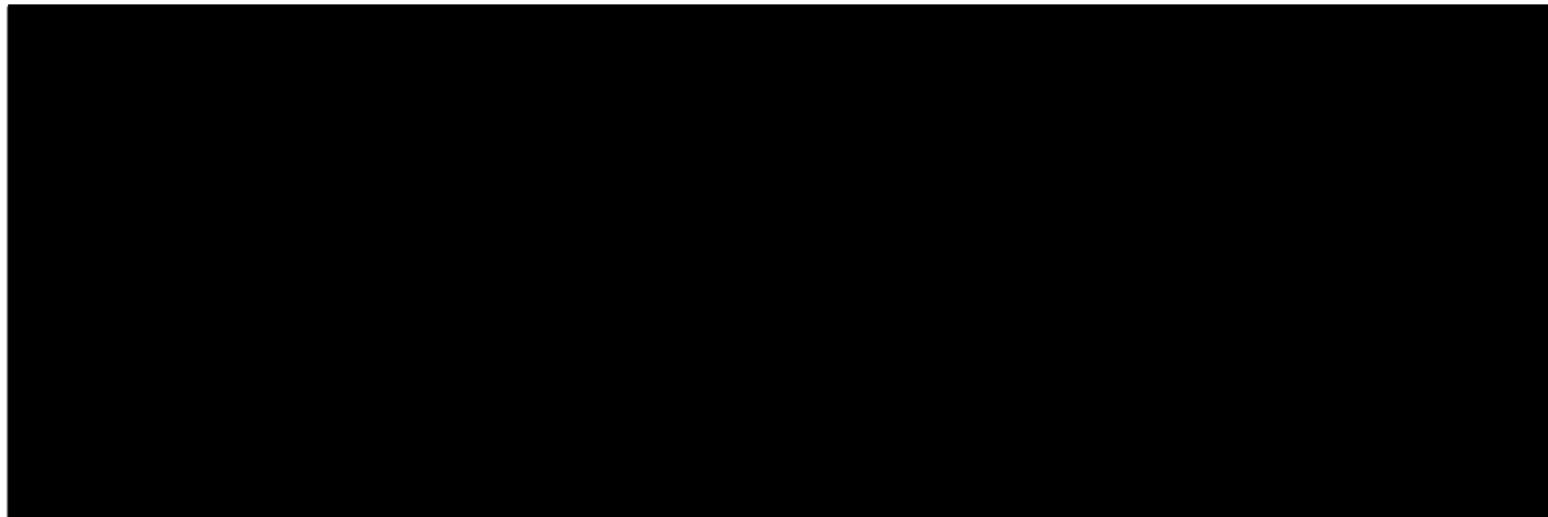


October 28, 2021

Re: Michael W Ackerman



To whom it may concern,



This letter was initially viewed by Michael W Ackerman at 10/29/2021 10:05 AM.

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## EXHIBIT H

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## CHIBUZO U ENEMCHUKWU, MD, MS

423 East 78<sup>th</sup> St, #4E  
New York, NY 10075  
Phone: 917-719-1173  
Fax: 646-921-4222

January 30, 2022

Honorable Laura Taylor Swain  
United States District Judge  
United States Courthouse  
500 Pearl Street  
New York, NY 10007

Re: *United States v. Michael Ackerman*, 20 Cr. 93 (LTS)

Dear Judge Swain:

I was retained as a medical expert by Mr. Michael Ackerman's attorney, Jonathan Marvinny, for the matter concerning *United States v. Michael Ackerman*.

Topic	Percentage
How the disease is spread	95
What causes the disease	93
What are the symptoms	92
What are the complications	91
What are the treatments	89
What are the side effects of treatment	88
What are the long-term effects	87
What are the prevention methods	86
What are the causes of the disease	85
What are the treatments available	84
What are the complications of the disease	83
What are the side effects of the treatment	82
What are the prevention methods for the disease	81
What are the long-term effects of the disease	80
What are the causes of the disease	79
What are the treatments available	78
What are the complications of the disease	77
What are the side effects of the treatment	76
What are the prevention methods for the disease	75
What are the long-term effects of the disease	74
What are the causes of the disease	73
What are the treatments available	72
What are the complications of the disease	71
What are the side effects of the treatment	70
What are the prevention methods for the disease	69
What are the long-term effects of the disease	68
What are the causes of the disease	67
What are the treatments available	66
What are the complications of the disease	65
What are the side effects of the treatment	64
What are the prevention methods for the disease	63
What are the long-term effects of the disease	62
What are the causes of the disease	61
What are the treatments available	60
What are the complications of the disease	59
What are the side effects of the treatment	58
What are the prevention methods for the disease	57
What are the long-term effects of the disease	56
What are the causes of the disease	55
What are the treatments available	54
What are the complications of the disease	53
What are the side effects of the treatment	52
What are the prevention methods for the disease	51
What are the long-term effects of the disease	50
What are the causes of the disease	49
What are the treatments available	48
What are the complications of the disease	47
What are the side effects of the treatment	46
What are the prevention methods for the disease	45
What are the long-term effects of the disease	44
What are the causes of the disease	43
What are the treatments available	42
What are the complications of the disease	41
What are the side effects of the treatment	40
What are the prevention methods for the disease	39
What are the long-term effects of the disease	38
What are the causes of the disease	37
What are the treatments available	36
What are the complications of the disease	35
What are the side effects of the treatment	34
What are the prevention methods for the disease	33
What are the long-term effects of the disease	32
What are the causes of the disease	31
What are the treatments available	30
What are the complications of the disease	29
What are the side effects of the treatment	28
What are the prevention methods for the disease	27
What are the long-term effects of the disease	26
What are the causes of the disease	25
What are the treatments available	24
What are the complications of the disease	23
What are the side effects of the treatment	22
What are the prevention methods for the disease	21
What are the long-term effects of the disease	20
What are the causes of the disease	19
What are the treatments available	18
What are the complications of the disease	17
What are the side effects of the treatment	16
What are the prevention methods for the disease	15
What are the long-term effects of the disease	14
What are the causes of the disease	13
What are the treatments available	12
What are the complications of the disease	11
What are the side effects of the treatment	10
What are the prevention methods for the disease	9
What are the long-term effects of the disease	8
What are the causes of the disease	7
What are the treatments available	6
What are the complications of the disease	5
What are the side effects of the treatment	4
What are the prevention methods for the disease	3
What are the long-term effects of the disease	2
What are the causes of the disease	1
What are the treatments available	0

The figure consists of a 5x5 grid of horizontal bar charts. Each bar chart represents a distribution of values, likely proportions, ranging from 0 to 100. The bars are black and have varying widths. The distribution of bars across the grid is as follows:

- Row 1: 10 bars
- Row 2: 9 bars
- Row 3: 10 bars
- Row 4: 9 bars
- Row 5: 10 bars

The bars are arranged in a staggered pattern, with each row offset from the row above it. The widths of the bars vary significantly, indicating different magnitudes or proportions for each category represented by the bars.

The figure consists of a 4x4 grid of 16 horizontal bar charts. Each bar chart is composed of a long black bar with a small white segment at its left end. The length of the black segment varies across the charts, indicating different values. The charts are arranged in a 4x4 grid, with the first three columns having 4 charts each and the fourth column having 5 charts.

A 5x5 grid of 25 horizontal black bars. The bars are of varying lengths, creating a visual pattern. The lengths of the bars in each row are: Row 1: 10, 10, 10, 10, 10; Row 2: 10, 10, 10, 10, 10; Row 3: 10, 10, 10, 10, 10; Row 4: 10, 10, 10, 10, 10; Row 5: 10, 10, 10, 10, 10. The bars are black and set against a white background.

Please do not hesitate to contact me if you have any further questions.

Sincerely,

Chibuzo U Enemchukwu

A horizontal bar chart showing the percentage of respondents who have heard of various topics. The y-axis lists topics from 1. to 20. The x-axis represents the percentage from 0% to 100%.

Topic	Percentage (%)
1.	98
2.	95
3.	98
4.	98
5.	98
6.	98
7.	98
8.	98
9.	98
10.	98
11.	98
12.	98
13.	98
14.	98
15.	98
16.	98
17.	98
18.	98
19.	98
20.	60

Term	Percentage
GMOs	85%
Organic	92%
Natural	88%
Artificial	65%
Organic	95%
Natural	90%
Artificial	70%
Organic	98%
Natural	96%
Artificial	75%
Organic	99%
Natural	97%
Artificial	80%
Organic	99%
Natural	98%
Artificial	85%